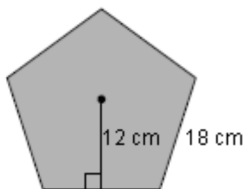


# TARGET H

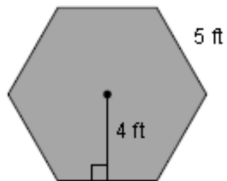
## (REGULAR POLYGONS)

*Find the area of each regular polygon.*

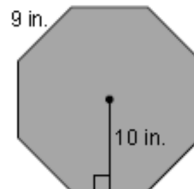
1.



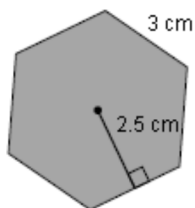
2.



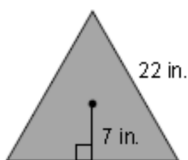
3.



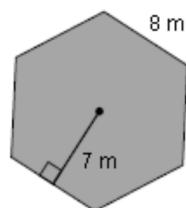
4.



5.

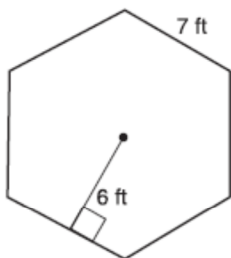


6.

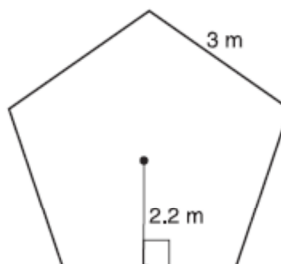


*Find the area of each regular polygon. If necessary, round to the nearest tenth.*

1.



2.



3. an octagon with an apothem 4.8 centimeters long and a side 4 centimeters long

4. a square with a side 24 inches long and an apothem 12 inches long

5. a hexagon with a side 23.1 meters long and an apothem 20.0 meters long

6. a pentagon with an apothem 316.6 millimeters long and a side 460 millimeters long

**TARGET H**  
**(REGULAR POLYGONS)**

**ANSWERS**

1.  $540 \text{ cm}^2$
2.  $60 \text{ ft}^2$
3.  $360 \text{ in}^2$
4.  $22.5 \text{ cm}^2$
5.  $231 \text{ in}^2$
6.  $168 \text{ m}^2$
7.  $126 \text{ ft}^2$
8.  $16.5 \text{ m}^2$
9.  $76.8 \text{ cm}^2$
10.  $576 \text{ in}^2$
11.  $1,386 \text{ m}^2$
12.  $364,090 \text{ mm}^2$